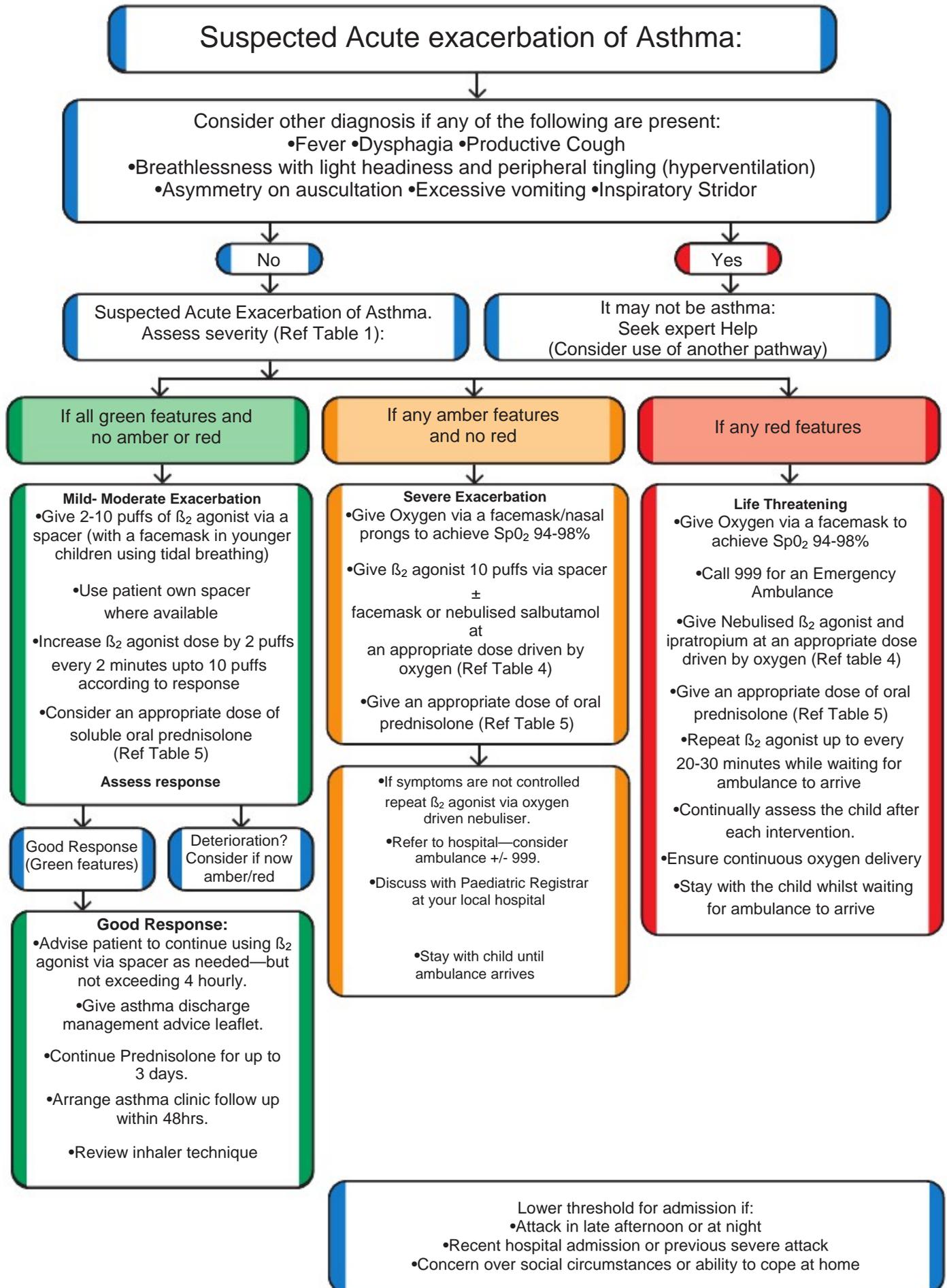


Clinical Assessment Tool for the Child with Acute Exacerbation of asthma 2-16 Years



Management within a Community Setting



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Management within a Community Setting

Table 1: Traffic Light system for identifying severity of Acute Exacerbation of Asthma

| | Green – Mild / Moderate | Amber – Severe | Red – Life Threatening |
|-------------|--|---|---|
| Behaviour* | Normal | Anxious/Agitated | Exhaustion/Confusion |
| Talking | In sentences | Not able to complete a sentence in one breath | Not able to talk |
| Respiratory | <40 breaths/min 2-5 years <30 breaths/min 5-12 years <25 breaths/min 12-16 years | Rate>40 Breaths/min 2-5 years Rate>30 Breaths/min >5 years | Poor respiratory effort Silent Chest |
| Heart Rate | Within normal range (Ref to table 2) | >140 beats p/min (2-5 years) >125 beats p/min (>5 years) *Consider influence of fever &/or Salbutamol | Extreme tachycardia/bradycardia Or arrhythmias |
| SaO2 | >92% in air | | <92% in air |
| PEFR | >50% of predicted (Ref to table 3) | 33-50% of predicted (Ref to table 3) | <33% of predicted (Ref to table 3) |

CRT: capillary refill time RR: respiration rate

Table 2: Normal Paediatric Values:

| | |
|----------------------------------|--------------------------------|
| Respiratory Rate at Rest: | Systolic Blood Pressure |
| 2-5yrs 25-30 breaths/min | 2-5yrs 80-100 mmhg |
| 5-12yrs 20-25 breaths/min | 5-12yrs 90-110 mmhg |
| >12yrs 15-20 breaths/min | >12yrs 100-120 mmhg |
| Heart Rate | |
| 2-5yrs 95-140 bpm | |
| 5-12yrs 80-120 bpm | |
| >12yrs 60-100 bpm | |

Table 3: Predicted Peak Flow: For use with EU / EN13826 scale PEF metres only

| Height (m) | Height (ft) | Predicted EU PEFR | Height (m) (L/min) | Height (ft) | Predicted EU PEFR (L/min) |
|------------|-------------|-------------------|--------------------|-------------|---------------------------|
| 0.85 | 2'9" | 87 | 1.30 | 4'3" | 212 |
| 0.90 | 2'11" | 95 | 1.35 | 4'5" | 233 |
| 0.95 | 3'1" | 104 | 1.40 | 4'7" | 254 |
| 1.00 | 3'3" | 115 | 1.45 | 4'9" | 276 |
| 1.05 | 3'5" | 127 | 1.50 | 4'11" | 299 |
| 1.10 | 3'7" | 141 | 1.55 | 5'1" | 323 |
| 1.15 | 3'9" | 157 | 1.60 | 5'3" | 346 |
| 1.20 | 3'11" | 174 | 1.65 | 5'5" | 370 |
| 1.25 | 4'1" | 192 | 1.70 | 5'7" | 393 |

Table 4: Guidelines for nebuliser

- Significantly low sats despite inhaler and spacer use
- Oxygen Saturations persistently below 96%
- Requiring oxygen
- Unable to use volumatic/spacer device
- Severe respiratory distress

Salbutamol

2-5 years– 2.5mg, 5-12 years– 2.5-5mg, 12-16 years– 5mg

Ipratropium

<12 years – 250micrograms,
12-18 years – 500micrograms

Table 5: Prednisolone Guideline BNF2013-2014

Give prednisolone by mouth:

child under 12 years 1–2 mg/kg (max. 40 mg) daily for up to 3 days or longer if necessary, if the child has been taking an oral corticosteroid for more than a few days give prednisolone 2mg/kg (max. 60mg). Child 12-18 years 40-50mg daily for at least 5 days.

BTS guidelines 2011: (if weight not available)

Use a dose of 20mg for children 2-5 years and 30-40mg for children >5years.

This guidance is written in the following context

This assessment tool was arrived at after careful consideration of the evidence available including but not exclusively use BTS Guidelines and NHS evidence. Healthcare professionals are expected to take it fully into account when exercising their clinical judgement. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or guardian or carer.